



Designation: D8449 – 23

Standard Specification for Label Content and Style, Format, Location, and Prominence of Elements for Consumer Products Containing Cannabinoids¹

This standard is issued under the fixed designation D8449; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification shall define the label content and style and format specifications for consumer products containing cannabinoids sold in an adult-use or medicinal-use marketplace.

1.2 This specification shall define clear product categories for which these specifications apply.

1.3 This specification shall apply to all consumer products containing cannabinoids packaged, distributed, and sold in an adult-use or medicinal-use marketplace regardless of the methods of obtention (source) of the cannabinoids.

1.4 This specification shall not apply to inhalable or topical consumer products containing less than 10 000 PPM (1 %) total cannabinoids², of which, no more than 3000 PPM (0.3 %) shall be total THC³.

1.5 This specification shall not apply to ingestible consumer products containing less than 250 PPM (0.025 %) total cannabinoids, of which, no more than 10 PPM (0.001 %) shall be total THC⁴.

1.6 This specification shall not define the label specifications for approved dietary supplements, over-the-counter drugs, or pharmaceuticals containing cannabinoids.

1.7 This specification shall not define the label specifications for non-consumer products containing cannabinoids such as bulk or in-process products.

1.8 This specification shall not define the design characteristics for label material, adhesives, ink, or other features unrelated to label content or style, format, location, and prominence of elements.

1.9 Where aspects of this specification differ from jurisdictional regulatory requirements, the stricter of the two shall take precedence.

1.10 Where aspects of this specification conflict with jurisdictional regulatory requirements, the authority having jurisdiction shall take precedence.

1.11 *Units*—The values stated in either SI units or US Customary units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.12 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.13 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:⁵

D8233 [Guide for Packaging and Labeling of Consumer Resin Cannabis Products for Sale to Adult Consumers, Legally Authorized Medical Users, and Caregivers in a Business-to-Consumer Retail Environment \(Retailers\)](#)
D8270 [Terminology Relating to Cannabis](#)

¹ This specification is under the jurisdiction of ASTM Committee D37 on Cannabis and is the direct responsibility of Subcommittee D37.04 on Processing and Handling.

Current edition approved April 1, 2023. Published April 2023. DOI: 10.1520/D8449-23.

² 10 000 ppm is the limit that the US Pharmacopeia Cannabis Expert Panel has recommended as the threshold for labeling cannabinoids. A reference is provided in the Related Materials section of this specification.

³ 3000 ppm for total THC (delta-9-THC) is based on the harmonized specification for classifying Cannabis sativa L. plants as “hemp” in Europe and North and South America.

⁴ 10 ppm is the Health Canada limit for total THC (delta-9-THC) above which all consumer products containing cannabinoids must be labeled with a Universal Symbol.

⁵ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.